



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/734,834	12/11/2000	Jacek Szyszko	10559-369001 / P10175	4725
20985	7590	07/15/2004	EXAMINER	
FISH & RICHARDSON, PC 12390 EL CAMINO REAL SAN DIEGO, CA 92130-2081			TRAN, ELLEN C	
			ART UNIT	PAPER NUMBER
			2134	

DATE MAILED: 07/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary****Application No.**

09/734,834

**Applicant(s)**

SZYSZKO, JACEK

**Examiner**

Ellen C Tran

**Art Unit**

2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 4.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

1. This action is responsive to communication: original application filed

11 December 2000.

2. Claims 1-30 are currently pending in this application. Claims 1, 9, 14, 20, 25, 27, and 29 are independent claims.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language

4. **Claims 1-30** are rejected under 35 U.S.C. 102(e) as being anticipated by  
Hurtado et al. U.S. Patent No. 6,611,812 (hereinafter '812).

**As to independent claim 1, "A method of transmitting routing information comprising: sending a first message containing a first sequence identifier and a digest of routing information that has been calculated using a first authentication key; and subsequently sending a second message containing a second sequence identifier that is earlier in a sequence than the first sequence identifier and a**

**digest of the routing information that has been calculated using a second authentication key” is taught in ‘812 col. 18, lines 34-55.**

**As to dependent claim 2, “wherein each authentication key has a specified lifetime and the lifetime of the second key expires prior to the lifetime of the first key” is shown in ‘812 col. 43, line 1 through col. 44 line 16.**

**As to dependent claim 3, “wherein the first key is valid only following an authentication key rollover and the second key was valid at a time prior to the authentication key rollover” is disclosed in ‘812 col. 43, line 1 through col. 44 line 16.**

**As to dependent claim 4, “determining whether neighboring routers have successfully performed the authentication key rollover; and sending both the first and second messages only if it is determined that at least one neighboring router has not yet successfully performed the authentication key rollover” is taught in ‘812 col. 21, line 60 through col. 22, line 16.**

**As to dependent claim 5, “including sending only the first message if the first message forms part of a routing information advertisement that is the first such advertisement transmitted by the router after the authentication key rollover” is shown in ‘812 col. 48, lines 8-11.**

**As to dependent claim 6, “including sending only the first message if it is determined that all neighboring routers have successfully performed the authentication key rollover” is disclosed in ‘812 col. 48, lines 14-27.**

**As to dependent claim 7, “including: receiving the first and second messages in a particular neighboring router; and processing, in the particular**

**neighboring router, only the digest contained in the first message"** is taught in '812 col. 16, line 51 through col. 17, line 20.

**As to dependent claim 8, "wherein the first sequence identifier comprises a number greater than the second sequence number"** is shown in '812 col. 16, line 51 through col. 17, line 20.

**As to independent claim 9**, this claim is directed to a router of the method of claim 1 and is rejected along the same rationale.

**As to dependent claims 10, 11, 12, and 13**, these claims are substantially similar to dependent claims 6, 3, 5, 8; therefore they are rejected along the same rationale.

**As to independent claim 14**, this claim is directed to the computer system of the method of claim 1 and is rejected along the same rationale.

**As to dependent claims 15, 16, 17, 18, and 19**; these claims are substantially similar to dependent claims 4, 5, 6, 7, and 8; therefore they are rejected along the same rationale.

**As to independent claim 20**, this claim is directed to a computer-readable medium of the method of claim 1 and is rejected along the same rationale.

**As to dependent claims 21-24**; these claims are substantially similar to dependent claims 2-8; therefore they are rejected along the same rationale.

**As to independent claim 25, "A method for use in connection with a router comprising: receiving in the router a first message containing a first sequence identifier and a digest of routing information that has been calculated using a first**

**authentication key; subsequently receiving in the router a second message containing a second sequence identifier that is earlier in a sequence than the first sequence identifier and a digest of the routing information that has been calculated using a second authentication key”** is taught in ‘812 col. 18, lines 34-55.

**“and processing the first message using the first authentication key and discarding the second message without processing routing information contained therein if the router has successfully performed an authentication key rollover from the second key to the first key”** is shown in ‘812 col. 43, line 1 through col. 44, line 16.

**As to dependent claim 26, “including processing the second message using the second key only if the router has not successfully performed the authentication key rollover”** is disclosed in ‘812 col. 43, line 1 through col. 44, line 16.

**As to independent claim 27,** this claim is directed to a router of the method of claim 25 and is rejected along the same rationale.

**As to dependent claims 28,** this claim is substantially similar to dependent claim 26 and is rejected along the same rationale.

**As to independent claim 29,** this claim is directed to a computer-readable medium of the method of claim 25 and is rejected along the same rationale.


**As to dependent claims 30,** this claim is substantially similar to dependent claim 26 and is rejected along the same rationale.

***Conclusion***

5 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen C Tran whose telephone number is (703) 305-8917. The examiner can normally be reached on 6:30 am to 3:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory A Morse can be reached on (703) 308-4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-5484.

***Ellen. Tran***  
***Patent Examiner***  
***Technology Center 2134***  
9 July, 2004

  
GREGORY MORSE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100